

Notice of Allowability

Application No.

10/619,908

Examiner

Sam Rizk

Applicant(s)

D'ARCY ET AL.

Art Unit

2112

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/12/2007.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Sam Rizk
JACQUES LOUIS-JACQUES
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

DETAILED ACTION

- Response to the applicant's amendment dated 10/12/2007
- Amended claims 1-20 have been submitted for examination
- Amended claims 1-20 have been allowed

Response to Arguments

1. Applicant's arguments and amended claims 1, 7 and 13 filed on 10/10/2007, have been fully considered. Amendments to the claims have not overcome the rejections under section 35 **USC § 101** per the office action mailed on 7/12/2007. The applicant has agreed to the proposed Examiner amendments to the specification to overcome rejections under section **35 USC § 101** as follows.

EXAMINER'S AMENDMENT

- An examiner's amendment to the record attached to this office. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.
2. Authorization for this examiner's amendment was given in a telephone interview with attorney Joel Justiss (Phone: 972-480-8800) on 11/16/2007.
 3. Change claim 8, line 2 the ". When combined with a computer..." to "...when executed by a computer..."
 4. Replace section [0008] to read (changes highlighted):

[0008] To address the above-discussed deficiencies of the prior art, the present invention provides a reduction checksum generator

for calculating a checksum value for a block of data. In one embodiment, the reduction checksum generator includes: (i) a reduction unit having a plurality of reduction stages and configured to pipeline a plurality of segments of the block of data through the plurality of reductions stages to reduce the plurality of segments to at least two segments, and (2) a checksum unit configured to generate a one's complement sum of the at least two segments and invert the one's complement sum to produce the checksum value. For purposes of the present invention, the phrase "configured to" means that the device, the system or the subsystem includes the necessary **software**, hardware, and firmware ~~or a combination thereof~~ to accomplish the stated task.

5. Replace section [0025] to read (changes highlighted):

[0025] One skilled in the art should know that the reduction checksum generator 200 may have additional circuitry that is not illustrated. Also, in other embodiments, the checksum unit 230 may be a conventional checksum generator. In addition, the reduction checksum generator 200 may be embodied in hardware, **software**, and firmware, ~~microcode or a combination thereof~~.

6. Replace section [0053] to read (changes highlighted):

[0053] One skilled in the art should know that the parallel reduction checksum generator 700 may have additional circuitry that is not illustrated. Also, in other embodiments, the checksum unit 740 may be a conventional checksum generator. In addition, the parallel reduction checksum generator 700 may be embodied in hardware, ~~software, and~~ firmware, ~~microcode or a combination thereof~~.

Reasons For Allowance

7. Amendments to the claims 1, 8, and 15 and the specifications section [0008], [0025] and [0053] has overcome rejections under section **35 USC § 101**.

Conclusion

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sam Risk whose telephone number is (571) 272-8191. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jacques Louis-Jacques can be reached on (571) 272-6962. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronics Business Center (EBC) at 866-217-9197 (toll-free?)

Sam Risk,

Examiner

ART UNIT 2112

JSu
11/19/07

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